(FILE 'HOME' ENTERED AT 08:55:47 ON 08 JUL 2004)

FILE 'REGISTRY' ENTERED AT 08:55:52 ON 08 JUL 2004

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 22 S L1 FUL

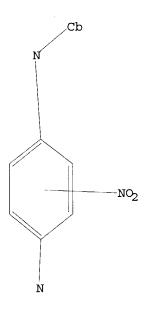
FILE 'CAPLUS' ENTERED AT 08:56:31 ON 08 JUL 2004

L4 10 S L3

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> d bib abs hitstr 1-10

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:599224 CAPLUS

DN 138:136761

TI Acylotropic Tautomerism: XXXV. R.dblarw.L-Inversion of Configuration of Dipolar Spyrocyclic and Open-Chain 2-Arylaminotropone Isomers

AU Olekhnovich, L. P.; Budarina, Z. N.; Borodkin, G. S.; Kurbatov, S. V.; Vaslyaeva, G. S.; Zhdanov, Yu. A.

CS Rostov State University, Rostov-on-Don, 344090, Russia

SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2002), 38(5), 713-722 CODEN: RJOCEQ; ISSN: 1070-4280

PB MAIK Nauka/Interperiodica Publishing

DT Journal

LA English

OS CASREACT 138:136761

AB R.dblarw.L-Inversion of chiral spirocyclic and open-chain 2-arylaminotropone derivs. with varied heteroatom (O, S, N) was studied. Kinetic relations holding in the RL-permutation are discussed. Its mechanism includes formation and dissociation of spiro bonds and torsion stereodynamics.

IT 491879-87-9

CN

CN

CN

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)

(acylotropic tautomerism and R.dblarw.L-inversion of configuration of dipolar spirocyclic and open-chain 2-arylaminotropone isomers)

RN 491879-87-9 CAPLUS

2,4,6-Cycloheptatriene-1-thione, 2-[(2,4-dinitrophenyl)(phenylmethyl)amino

IT 491879-88-0

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(acylotropic tautomerism and R.dblarw.L-inversion of configuration of dipolar spirocyclic and open-chain 2-arylaminotropone isomers)

RN 491879-88-0 CAPLUS

2,4,6-Cycloheptatriene-1-thione, 2-[(2,4-dinitro-1-naphthalenyl)(phenylmethyl)amino]- (9CI) (CA INDEX NAME)

IT 491879-82-4P 491879-83-5P 491879-84-6P 491879-89-1P 491879-94-8P

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PROC (Process); RACT (Reactant or reagent)

(acylotropic tautomerism and R.dblarw.L-inversion of configuration of dipolar spirocyclic and open-chain 2-arylaminotropone isomers)

RN 491879-82-4 CAPLUS

1,3,5-Cycloheptatrien-1-amine, N-(2,4-dinitrophenyl)-N-(phenylmethyl)-7-[(phenylmethyl)imino]- (9CI) (CA INDEX NAME)

RN 491879-83-5 CAPLUS

CN 1,3,5-Cycloheptatrien-1-amine, N-(1,1-dimethylethyl)-N-(2,4-dinitrophenyl)-7-[(phenylmethyl)imino]- (9CI) (CA INDEX NAME)

RN 491879-84-6 CAPLUS

CN 1-Naphthalenamine, 2,4-dinitro-N-(phenylmethyl)-N-[7-[(phenylmethyl)imino]-1,3,5-cycloheptatrien-1-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \mathtt{Ph-CH_2-N} \\ \mathtt{N-CH_2-Ph} \\ \mathtt{O_2N} \\ \mathtt{NO_2} \end{array}$$

RN 491879-89-1 CAPLUS

CN 2,4,6-Cycloheptatrien-1-one, 2-[(2,4-dinitrophenyl)(phenylmethyl)amino](9CI) (CA INDEX NAME)

RN 491879-94-8 CAPLUS

CN 2,4,6-Cycloheptatrien-1-one, 2-[(2,4-dinitro-1-naphthalenyl)(phenylmethyl)amino]- (9CI) (CA INDEX NAME)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:924420 CAPLUS

DN 136:162487

TI Identification of Novel Ah Receptor Agonists Using a High-Throughput Green Fluorescent Protein-Based Recombinant Cell Bioassay

AU Nagy, Scott R.; Liu, Gang; Lam, Kit S.; Denison, Michael S.

CS Department of Environmental Toxicology, University of California, Davis, CA, 95616, USA

SO Biochemistry (2002), 41(3), 861-868 CODEN: BICHAW; ISSN: 0006-2960

PB American Chemical Society

DT Journal

LA English

AΒ

IT

CN

The Ah receptor is a ligand-dependent transcription factor that mediates the biol. and toxic effects of polycyclic aromatic hydrocarbons and halogenated aromatic hydrocarbons such as 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD, dioxin). Recent evidence also suggests a role for the AhR in normal physiol. and development. Although a variety of structurally diverse chems. are reported to bind to and activate the AhR, the full spectrum of structural chemical classes that can interact with the AhR remains to be elucidated. Large-scale anal. of the ligand binding specificity of the AhR requires the use of a high-throughput AhR bioassay system for chemical screening. We have utilized a recombinant mouse hepatoma cell line (H1G1.1c3) containing a stably integrated TCDD- and AhR-responsive enhanced green fluorescent protein (EGFP) reporter gene to screen a 1,5-dialkylamino-2,4-dinitrobenzene combinatorial chemical library consisting of 155 parental amines and up to 12 090 combinatorial products in less than 7 days for novel AhR agonists. These analyses have identified numerous parental amines as relatively potent inducers of EGFP (with EC50s between 8 and 1000 μM) and also have revealed several novel products of the combinatorial chemical library synthesis with EC50s between 10 and 100 μM_{\cdot} . Overall, these results have not only allowed the identification of novel activators of the AhR but also demonstrate the utility of the recombinant H1G1.1c3 cell bioassay for high-throughput chemical screening. 396992-80-6P 396993-01-4P

RL: BSU (Biological study, unclassified); CPN (Combinatorial preparation); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation) (identification of novel Ah receptor agonists using high-throughput green fluorescent protein-based recombinant cell bioassay)

RN 396992-80-6 CAPLUS

Cycloheptanamine, N-[5-[2-(4-methoxyphenyl)hydrazino]-2,4-dinitrophenyl]-(9CI) (CA INDEX NAME)

396993-01-4 CAPLUS RN

Cyclooctanamine, N-[5-[2-(4-methoxyphenyl)hydrazino]-2,4-dinitrophenyl]-CN (9CI) (CA INDEX NAME)

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 36 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN L4

2001:207825 CAPLUS AN

134:242400 DN

Hair coloring preparations based on 2-nitro-p-phenylene-derivative direct TIdyes

Naumann, Frank; Rose, David; Meinigke, Bernd; Hoeffkes, Horst IN

Henkel K.-G.a.A., Germany PΑ

Ger. Offen., 10 pp. SO

CODEN: GWXXBX

DTPatent

LΆ German

1111	OCT MAII	
FAN.	CNT 1	
	PATENT NO. KIND DAT	TE APPLICATION NO. DATE
		010322 DE 1999-19944528 19990917
PΙ	DE 19944528 A1 200	
	WO 2001021144 A2 200	010329 WO 2000-EP8774 20000908
	WO 2001021144 A3 200	011011
	W: AU, JP, US	
		E, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
	PT, SE	
		200610 TD 2000 071077 2000000
		020612 EP 2000-971277 20000908
	R: AT, BE, CH, DE, DK	K, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
	IE, FI, CY	
PRAI	DE 1999-19944528 A 199	990917
	WO 2000-EP8774 W 200	000908
os	MARPAT 134:242400	
GI		
0.1		

The invention concerns hair coloring formulations that contain only direct AB dyes and at least one of the dyes is a 2-nitro-p-phenylene-derivative (I),

where R1-R4 = H, C1-C4 hydroxyalkyl, C7 or C8-ring saturated, unsatd., substituted and at least one of R1-R4 is from the C7 or C8-ring group; X = H, halogen; the dyes shift the color to read. The compns. further include developers, coupling agents and can also include other direct dyes. The compns. do not contain oxidative dye precursors. Thus 1-(N-cycloheptylamino)-4-amino-2-nitrobenzene was prepared and used in a two-component composition. It was used in component B along with (in g) ammonium sulfate 1, water to 100, ammonia to pH = 9. Component A contained in g: cetearyl alc. 1.00; coco fatty alcs. 1.00; Akypo RLM45N 1.10; p-hydroxybenzoic acid Pr ester 0.05; p-hydroxybenzoic acid Me ester 0.15; water to 70.

IT 330456-77-4P 330456-78-5P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair coloring prepns. based on 2-nitro-p-phenylene-derivative direct dyes)

RN 330456-77-4 CAPLUS

CN 1,4-Benzenediamine, N1-cycloheptyl-2-nitro- (9CI) (CA INDEX NAME)

RN 330456-78-5 CAPLUS

CN 1,4-Benzenediamine, N1-cyclooctyl-2-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:532245 CAPLUS

DN 133:281562

TI Solution-Phase Synthesis of a 1,5-Dialkylamino-2,4-dinitrobenzene Library and the Identification of Novel Antibacterial Compounds from This Library

AU Liu, Gang; Fan, Yemei; Carlson, James R.; Zhao, Zhan-Gong; Lam, Kit S. CS Department of Internal Medicine UC Davis Cancer Center and Department of

Pathology, UC Davis Medical Center, Sacramento, CA, 95817, USA

SO Journal of Combinatorial Chemistry (2000), 2(5), 467-474 CODEN: JCCHFF; ISSN: 1520-4766

PB American Chemical Society

DT Journal

LA English

OS CASREACT 133:281562

AB A small mol. library containing 1,5-dialkylamino-2,4-dinitrobenzene derivs. can be generated by a highly efficient solution-phase synthesis method. From this 2485-member library, a series of novel compds. with antibacterial activity were isolated. The significance of this report is that the synthetic scheme is extremely simple, with minimal number of liquid handling steps, and the solvents and reagents left in the final library preparation are fully compatible with cell-based assays.

IT 299899-35-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation)

(solution-phase preparation of dinitrobenzenediamine combinatorial library

and

identification of antibacterial compds.)

RN 299899-35-7 CAPLUS

CN 1,3-Benzenediamine, N-[4-[(4-amino-3-methylcyclohexyl)methyl]-2-methylcyclohexyl]-N'-cyclooctyl-4,6-dinitro- (9CI) (CA INDEX NAME)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1977:140050 CAPLUS

DN 86:140050

TI 4-Substituted-5,7-dinitro-2-(α , α -difluoroalkyl)-benzimidazole compounds as insecticides

IN Miesel, John L.

PA Eli Lilly and Co., USA

SO U.S., 23 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 3

I	FAN.CNI 3				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		·			
E	PI US 4000295	A	19761228	US 1975-588972	19750620
	US 3790595	Α	19740205	US 1972-221809	19720128
F	PRAI US 1969-833685		19690616		
	US 1972-221809		19720128		
	US 1973-415100		19730910		
C	JI .				

$$O_2N$$
 H
 N
 CF_2R
 O_2N
 N

Ι

Benzimidazoles I (R = F, Cl, CF3, CF2CF3; R1 = alkylthio, alkoxy, alkyl, NR2R3, R2 = H, R3 = alkyl, cycloalkyl; R2 = R3 = alkyl, cycloalkyl; NR2R3 = piperidino, octaazocino, decaisoquinolyl, hexaazepino, azabicycloalkanyl) (106 compds.) were prepared Thus, I (R = F, R1 = Cl) (II) was treated with Me3CNH2 in the presence of Et3N to give I (R = F, R1 = Me3CNH). Similar treatment of II with piperidine gave I (R = F, R1 = piperidino). The reaction of cyclohexanol and K and II in PO(NMe2)3 gave I (R = F, R1 = cyclohexyloxy) and of EtCHMeSNa and II gave I (R = F, R1 = EtCHMeS). These I exhibited insecticidal activity against the Mexican bean beetle, southern armyworm, the two-spotted spider mite, milkweed bug, house fly, and the boll weevil.

IT 30542-91-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and insecticidal activity of)

RN 30542-91-7 CAPLUS

CN 1H-Benzimidazol-4-amine, N-cyclooctyl-5,7-dinitro-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)

IT 30542-96-2P 30548-48-2P

RN 30542-96-2 CAPLUS

CN 1H-Benzimidazol-4-amine, N-cycloheptyl-5,7-dinitro-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)

RN 30548-48-2 CAPLUS

CN 1H-Benzimidazol-4-amine, N-[4-(1-methylethyl)cyclooctyl]-5,7-dinitro-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN L4

AN 1976:494361 CAPLUS

DN 85:94361

4-Substituted-5,7-dinitro-2-(α , α -difluoroalkyl)benzimidazole TI compounds

Miesel, John L. IN

PAEli Lilly and Co., USA

U.S., 21 pp. Division of U.S. 3,790,595. SO CODEN: USXXAM

DT Patent

English LΑ

FAI	N.CNT 3				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 3927020	Α	19751216	US 1973-415099	19730910
	US 3790595	A	19740205	US 1972-221809	19720128
PRI	AI US 1969-833685		19690616		
	US 1972-221809		19720128		
GΙ					

$$\begin{array}{c|c} & \text{NO}_2 \\ & \text{H} \\ \text{N} \\ \text{CF}_2 \text{R}^1 \\ \\ \text{R} \end{array}$$

About 130 benzimidazoles I (R = Me3CNH, Me2CHCH2CHMeN, piperidino, Me3CS, ABcyclohexyloxy, PrNH, BuNEt, MeO, MeS, etc.; R1 = F, C1, CF3) were prepared by treating I (R = Cl) with RH. I [R = Me(CH2)4, R1 = F] was prepared by treating I (R = Cl) with BuCH(CO2Et)2 followed by hydrolysis and decarboxylation. At 50 ppm I (R = Me2CHCH2CMeNH, RI = F) controlled 91-100% Mexican bean beetle.

30542-91-7P 30542-96-2P 30548-48-2P ITRL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

Ι

RN 30542-91-7 CAPLUS

1H-Benzimidazol-4-amine, N-cyclooctyl-5,7-dinitro-2-(trifluoromethyl)-CN(CA INDEX NAME)

RN 30542-96-2 CAPLUS

CN 1H-Benzimidazol-4-amine, N-cycloheptyl-5,7-dinitro-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)

RN 30548-48-2 CAPLUS

CN 1H-Benzimidazol-4-amine, N-[4-(1-methylethyl)cyclooctyl]-5,7-dinitro-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1971:111632 CAPLUS

DN 74:111632

TI Cycloalkylsulfamic acids and their salts

AU Unterhalt, Bernard; Boeschemeyer, L.

CS Inst. Pharm. Chem. Lebensmittelchem., Univ. Marburg/Lahn, Marburg/Lahn,

Fed. Rep. Ger.

Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung (1971), 145(2), SO

CODEN: ZLUFAR; ISSN: 0044-3026

DTJournal

LAGerman

Cycloalkylsulfamic acids, their salts, N,N'-dicycloalkylsulfamides, and AB (dinitrophenyl) amines were prepared from cycloalkylamines. The sweetness of the unsubstituted Na cycloalkylsulfamates was tested.

ΙT 31846-31-8P 31846-32-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN31846-31-8 CAPLUS

Cycloheptylamine, N-(2,4-dinitrophenyl)- (8CI) (CA INDEX NAME) CN

RN31846-32-9 CAPLUS

Cyclooctylamine, N-(2,4-dinitrophenyl)- (8CI) (CA INDEX NAME) CN

ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN L4

AN 1971:53792 CAPLUS

DN74:53792

ΤI Insecticidal 4-amino-5,7-dinitro-2-(trifluoromethyl)benzimidazoles

INMiesel, John L.

PAEli Lilly and Co.

Ger. Offen., 64 pp. SO CODEN: GWXXBX

DT Patent

T.Δ German

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 2029753	Α	19701217	DE 1970-2029753	19700616
	ES 380609	A1	19730401	ES 1970-380609	19700610
	GB 1272208	A	19720426	GB 1970-1272208	19700610
	FR 2052666	A5	19710409	FR 1970-22123	19700616
	JP 49016938	B4	19740425	JP 1970-52332	19700616
	CH 554345	Α	19740930	CH 1970-9108	
PRAI	US 1969-833685		19690616	CH 1970-9108	19700616
α	77 71 ()				

For diagram(s), see printed CA Issue.

The title compds. (I) were prepared from the 4-chloro compound with RRINH. I ABwere used against various insects, e.g. Mexican bean beetle (Epilachna varivestis), boll weevil (Anthonomus grandis), housefly, southern armyworm (Prodenia eridania) and milkweed bug (Oncopeltis fasciatus), and mites, e.g. red spider mites. Among .apprx.50 I prepared were (R and R1 given): tert-Bu, H; Pr, Me; Bu, Bu; CH2C.tplbond.CH, H; CH2CF3, H; cyclopropyl, H;

RN 30542-96-2 CAPLUS
CN 1H-Benzimidazol-4-amine, N-cycloheptyl-5,7-dinitro-2-(trifluoromethyl)(9CI) (CA INDEX NAME)

RN 30548-48-2 CAPLUS
CN 1H-Benzimidazol-4-amine, N-[4-(1-methylethyl)cyclooctyl]-5,7-dinitro-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN AN 1963:54865 CAPLUS

DN 58:54865 OREF 58:9420e-g

Y * 9 4

TI Effects of chemicals on the mitotic cell in plant, with special reference to tropoids

AU Shimizu, Yoshitaka

CS Tohoku Univ., Sendai, Japan

SO Sci. Rept. Tohoku Univ., Fourth Ser. (1962), 28, 143-78

DT Journal

LA English

The relation between chemical structure and toxicity to cell division, for AΒ more than 100 compds., mostly with an unsatd. 7-C ring as colchicine, were studied for induction of mitotic abnormalities. The compds. were dissolved in a water-miscible solvent and next diluted with water to make 0.1, 0.01, 0.001, and 0.0001% solns. Various meristematic tissues from Allium cepa, Tradescantia pcludosa, and Vicia faba were incubated in these solns. during 4 and 24 hrs. at 22°. Squash prepns. were fixed with a Carnoy 3:1 solution, stained with Feulgen reagent together with an aceto-orcein staining, if necessary, and examined for mitotic aberrations, 11 types of which were distinguished. The toxicity of such mitotic poisons as N-mustard compds. can be increased by replacing their benzene ring by the unsatd. 7-C ring. This ring itself is not essential for mitotic toxicity, but rather its flatness and (or) the π -electron polarity is related with this toxicity. Hydrophilic properties from heterocyclic 5-membered rings containing N or S promote binucleate cell formation by phragmoplast disturbance. Especially side chain radicals induce chromosome denaturation, the order of toxicity being OCH3 < OH < NH2. Such induction of mitotic activity in mature tissue as exerted by plant growth substances is shown by some monoazaazulene derivatives.

91805-09-3, 2,4,6-Cycloheptatrien-1-one, 2-hydroxy-5-(2,4,6-trinitroanilino)-

(plant cell division response to)

RN 91805-09-3 CAPLUS

CN 2,4,6-Cycloheptatrien-1-one, 2-hydroxy-5-(2,4,6-trinitroanilino)- (7CI) (CA INDEX NAME)

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1952:45329 CAPLUS

DN 46:45329

OREF 46:7560h-i,7561a-e

TI Tropolone derivatives. X. p-Aminotropolone. II

AU Nozoe, Tetsuo; Seto, Shuichi; Ito, Sho; Sato, Masatsune

CS Tohoku Univ., Sendai

SO Proc. Japan Acad. (1951), 27, 426-9

DT Journal

LA Unavailable

AB cf. C.A. 46, 962g. 5-Aminotropolone (I) in EtOH with Br gives no crystalline product, but similar treatment of 5-acetamidotropolone gives a mono-Br compound (II), m. 201-4°, analyzing for an ethanolate, C9H8O3NBr.EtOH. II with Ac2O gives a di-Ac derivative (III), m. 166-7°, undepressed by mixture with the diacetate of 5-amino-3-bromotropolone, obtained earlier from 3-bromotropolone via an

azo compound Bromination of the di-Ac derivative of I also yields III. I, its mono- and di-Ac derivs., and its Me ether give only intractable materials on treatment with 1 or 2 equivs. HNO3 in HOAc or concentrated H2SO4. The Schotten-Baumann reaction converts I to 5-benzamidotropolone, colorless scales, m. 181-2°. I does not condense easily in EtOH-HOAc with benz-, salicyl-, or anisaldehydes or with vanillin, but p-O2NC6H4CHO gives a p-nitrobenzylidene derivative, m. 202-4° (decomposition), which is H2O-insol., easily hydrolyzed by hot H2O, and gives a red color with FeCl3. Diazotization of I in concentrated H2SO4, followed by dilution with

heating to 80°, yields 5-hydroxytropolone (IV), yellow needles, $\ensuremath{\text{m}}.$ 251° (decomposition) (blackens at 245°), soluble in Me2CO, EtOH, and HOAc, insol. in C6H6 and Et2O, and sublimes at 5 mm. and 170-80°; it gives a H2O-insol. yellow Na salt, a purple-black ferric complex salt, and a yellow Cu complex salt. These salts melt above 350°. Heating IV with Ac20, followed by treatment with H2O, gives a monoacetate, yellow scales, m. 87-8°, which turns red when treated with FeCl3. When diazotized in EtOH, then heated to 70°, I gives 5-ethoxytropolone, colorless needles, m. 135-5.5°, soluble in Me2CO, EtOH, C6H6, and Et2O but insol. in petr. ether; its Na salt is yellow, its Cu complex yellow-green, and its FeCl3-reaction product red-orange. The preparation of 5-chlorotropolone, m. 181-5.3°, and of 5-iodotropolone, m. 185-6°, from I via Sandmeyer reactions has been reported in an earlier paper (loc. cit.), but the m.ps. cited there are in error. I in EtOH with PhNCS gives 5-(3-phenyl-2-thioureido)tropolone (1-phenyl-3-(5-tropolonyl)-2-thiourea), yellow prisms, m. 150-1° (decomposition). I and p-AcNHC6H4SO2Cl in pyridine give 5-(pacetamidophenylsulfonamido)tropolone, yellow needles, m. 224-5° (decomposition). With MeI and K2CO3 in MeOH solution, I yields pale yellow scales, m. 215-18°, presumed to be 5-(dimethylamino)tropolone-MeI (5-tropolonyltrimethylammonium iodide). Picryl chloride and I in MeOH containing NaOAc yield 5-(picrylamino)tropolone, red-orange scales, m. 249-51° (decomposition). I did not react with urea, nitrourea, CS2, or dicyandiamide. Aqueous solns. of the alkali-metal salts of I rapidly turn red-brown in air. Evaporation of a solution of I in excess HCl to a small volume

gives a compound 2I.3HCl (V), m. 223-4° (decomposition). V with KSCN gives yellow needles, 2I.HSCN.H2O, m. 128-30°. Aqueous solns. of the Na salt of I treated with HCl to pH 5 yield crystals, I.HCl.H2O, m. 115-17°, a 2nd crystalline substance, m. 180-5°, of unknown composition The behavior of I differing from that of ordinary arylamines (low yields of halo and HO derivs., difficult condensation with aryl aldehydes to give products more easily hydrolyzed, poor reaction with urea, etc.) is attributed to resonance and tautomeric structures tending to decrease the basicity of the NH2 group.

IT 91805-09-3, 2,4,6-Cycloheptatrien-1-one, 2-hydroxy-5-(2,4,6-trinitroanilino)-

(preparation of)

RN 91805-09-3 CAPLUS

CN 2,4,6-Cycloheptatrien-1-one, 2-hydroxy-5-(2,4,6-trinitroanilino)- (7CI) (CA INDEX NAME)

د. و ف د

L Number	Hits	Search Text	DB	Time stamp
-	1	("6715653").PN.	USPAT;	2004/07/07 09:26
			US-PGPUB	, , , , , , , , , , , , , , , , , , , ,
-	1	("6713653").PN.	USPAT;	2004/06/21 10:47
	_	######################################	US-PGPUB	
_	1	("6525192").PN.	USPAT;	2004/06/24 10:10
	26-	1 41545	US-PGPUB	
-	365	low NEAR substituted NEAR hydroxypropyl NEAR cellulose	USPAT;	2004/06/24 10:11
	25	ALEAD A MILL AND A MIL	US-PGPUB	
-	35	(low NEAR substituted NEAR hydroxypropyl NEAR cellulose).clm.	USPAT;	2004/06/24 10:12
	22	Classification of the Control of the	US-PGPUB	
-	22	(low NEAR substituted NEAR hydroxypropyl NEAR cellulose).clm.	USPAT	2004/06/24 13:00
-	1	("6495721").PN.	USPAT	2004/06/24 13:00
_	1	("5434295").PN.	USPAT;	2004/07/08 06:27
	44	(filter AD3 and annual) als	US-PGPUB	
_	44	(filter ADJ column).clm.	USPAT;	2004/07/08 09:49
_	2	(/#2622E92#) (#2044642#) DN	US-PGPUB	
_	2 89665	(("3632582") or ("3944612")).PN.	USPAT	2004/07/08 10:12
	09003	coloring or tinting	USPAT;	2004/07/08 10:13
	368	(Korotin NEAD filesus) also	US-PGPUB	
-	308	(keratin NEAR fibers).clm.	USPAT;	2004/07/08 10:13
_	11146	(coloring or tinting) also	US-PGPUB	
_	11140	(coloring or tinting).clm.	USPAT;	2004/07/08 10:14
_	54	((coloring or tinting) old) and (((counting NEAD St	US-PGPUB	
	34	((coloring or tinting).clm.) and ((keratin NEAR fibers).clm.)	USPAT;	2004/07/08 10:14
			US-PGPUB	